



Bid Number/बोली क्रमांक (बिड संख्या):
GEM/2024/B/5566424
Dated/दिनांक : 01-11-2024

Bid Document/ बिड दस्तावेज़

| Bid Details/बिड विवरण | |
|--|--|
| Bid End Date/Time/बिड बंद होने की तारीख/समय | 15-11-2024 16:00:00 |
| Bid Opening Date/Time/बिड खुलने की तारीख/समय | 15-11-2024 16:30:00 |
| Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से) | 120 (Days) |
| Ministry/State Name/मंत्रालय/राज्य का नाम | Ministry Of Petroleum And Natural Gas |
| Department Name/विभाग का नाम | Indian Oil Corporation Limited |
| Organisation Name/संगठन का नाम | locl Business Development |
| Office Name/कार्यालय का नाम | locl Bd Yusuf Sarai |
| Item Category/मद केटेगरी | Custom Bid for Services - ---- |
| Similar Category/समान श्रेणी | <ul style="list-style-type: none">Hiring of Consultants - Milestone/Deliverable Based |
| Contract Period/अनुबंध अवधि | 2 Month(s) 14 Day(s) |
| MSE Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से एमएसई छूट | No |
| Startup Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से स्टार्टअप छूट | No |
| Document required from seller/विक्रेता से मांगे गए दस्तावेज़ | Experience Criteria,Bidder Turnover,Certificate (Requested in ATC),Additional Doc 1 (Requested in ATC),Additional Doc 2 (Requested in ATC),Additional Doc 3 (Requested in ATC) *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer |
| Do you want to show documents uploaded by bidders to all bidders participated in bid?/ | No |
| Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया | No |
| Type of Bid/बिड का प्रकार | Two Packet Bid |
| Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय | 4 Days |

Bid Details/बिड विवरण

| | |
|---|-----------------------------|
| Evaluation Method/मूल्यांकन पद्धति | Total value wise evaluation |
| Arbitration Clause | No |
| Mediation Clause | No |

EMD Detail/ईएमडी विवरण

| | |
|-------------------|----|
| Required/आवश्यकता | No |
|-------------------|----|

ePBG Detail/ईपीबीजी विवरण

| | |
|-------------------|----|
| Required/आवश्यकता | No |
|-------------------|----|

MII Compliance/एमआईआई अनुपालन

| | |
|-------------------------------|-----|
| MII Compliance/एमआईआई अनुपालन | Yes |
|-------------------------------|-----|

MSE Purchase Preference/एमएसई खरीद वरीयता

| | |
|---|-----|
| MSE Purchase Preference/एमएसई खरीद वरीयता | Yes |
|---|-----|

1. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference for services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered service. If L-1 is not an MSE and MSE Service Provider (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band as defined in the relevant policy, then 100% order quantity will be awarded to such MSE bidder subject to acceptance of L1 bid price. The buyers are advised to refer to the [OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if the credentials of the service provider are validated on-line in GeM profile as well as validated and approved by the Buyer after evaluation of submitted documents.
2. If L-1 is not an MSE and MSE Service Provider (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band as defined in the relevant policy, then 100% order quantity will be awarded to such MSE bidder subject to acceptance of L1 bid price.
3. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

Additional Qualification/Data Required/अतिरिक्त योग्यता /आवश्यक डेटा**Instruction To Bidder:**[1730455030.pdf](#)

Pre Qualification Criteria (PQC) etc if any required:[1730455035.pdf](#)

Scope of Work:[1730455042.pdf](#)

Payment Terms:[1730455055.pdf](#)

Penalties:[1730455061.pdf](#)

Any other Documents As per Specific Requirement of Buyer -1:[1730455087.pdf](#)

GEM Availability Report (GAR):[1730455125.pdf](#)

Undertaking of Competent Authority is mandatory to create Custom Bid for Services. Please download standard format document and upload:[1730456002.pdf](#)

Pre Bid Detail(s)

| Pre-Bid Date and Time | Pre-Bid Venue |
|-----------------------|---------------|
| 08-11-2024 15:00:00 | Via Web mode |

Custom Bid For Services - ---- (1)

Technical Specifications/तकनीकी विशिष्टियाँ

| Specification | Values |
|--|--------|
| Core | |
| Description /Nomenclature of Service Proposed for procurement using custom bid functionality | ---- |
| Regulatory/ Statutory Compliance of Service | YES |
| Compliance of Service to SOW, STC, SLA etc | YES |
| Addon(s)/एडऑन | |

Additional Specification Documents/अतिरिक्त विशिष्टि दस्तावेज़

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी

| S.No./क्र. सं. | Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी | Address/पता | The quantity of procurement "1" indicates Project based or Lumpsum based hiring. | Additional Requirement/अतिरिक्त आवश्यकता |
|----------------|---|--|--|--|
| 1 | Vijay Singh | 110016,Indianoil Bhavan, 1 Sri Aurobindo Marg, Yusuf Sarai, New Delhi-110016 | 1 | N/A |

Buyer Added Bid Specific Terms and Conditions/क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें

1. Generic

OPTION CLAUSE: The buyer can increase or decrease the contract quantity or contract duration up to 25 percent at the time of issue of the contract. However, once the contract is issued, contract quantity or contract duration can only be increased up to 25 percent. Bidders are bound to accept the revised quantity or duration

2. Generic

Bidder financial standing: The bidder should not be under liquidation, court receivership or similar proceedings, should not be bankrupt. Bidder to upload undertaking to this effect with bid.

3. Purchase Preference (Centre)

Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for percentage of 15% of total value.

4. Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

1.0 Introduction:

1.1 IndianOil intends to evaluate techno-commercial feasibility of Polycarbonate (PC) and Bisphenol-A (BPA) production at Paradip Refinery. The polycarbonate production is envisaged to be based on non-phosgene technology. Majority of Bisphenol-A will be consumed as a feedstock for polycarbonate and the remaining quantity shall be considered for merchant sell.

1.2 The envisaged project will comprise of following process plants:

- a) Bisphenol-A Plant
- b) Polycarbonate Plant (Sub-units: Ethylene Carbonate, Dimethyl Carbonate, Diphenyl Carbonate and Polycarbonate Unit)
- c) Ethylene Oxide Purification Unit

1.3 The Polycarbonate Unit is envisaged to be integrated with existing MEG Plant in Paradip Refinery and utilize CO₂ and Ethylene Oxide as feedstock from MEG Plant as feedstock for Polycarbonate Production. CO₂ available from MEG Plant will

It will be purified as battery limit conditions requirement and necessary Equipments to be included for purification unit.

1.4 Only commercially proven technologies which are internationally available to be considered for studies and recommendation for the above process units.

2.0 Objectives:

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The objective of this feasibility study is to assess necessary facilities (ISBL and OSBL) / plot area requirement / CAPEX as per the formats attached (@ an accuracy of +/-30%) / OPEX / Project Schedule, etc. for Polycarbonate (PC) and Bisphenol-A project at Paradip.

Assessment of new Utilities/Offsite facilities and exploring possibility of integration with existing facilities at Paradip Refinery and IOCL's upcoming Paradip Petrochemical Complex. New OSBL facilities will be designed by consultant wherever existing facilities are inadequate and CAPEX to be estimated.

3.0 Detailed Scope of Work:

The scope of the study starts from the receipt of raw materials that have to be sourced from Paradip Refinery & proposed Paradip cracker / imported and will include all facilities required for the entire complex including ISBL facilities and utilities & offsite facilities. Consultant will also assess the additives/catalyst/chemicals requirement (quantity and quality) for different process units under the project.

Consultant will study the process units both on individual stand-alone basis and as an integrated complex ("Project"). A common integrated utilities and offsite facilities will be considered for the Project.

Consultant will have to sign a Non-Disclosure Agreement (NDA) with all the corresponding licensors of the above-mentioned process units to maintain confidentiality of data shared by the licensors. Consultant shall directly contact to Licensor for technical information with IndianOil keep in loop in all communications.

IndianOil will provide project cost of PEO unit for the subject project. However, PEO block diagram and piping cost shall be included in the subject polycarbonate project study.

3.1 Consultant will be required to undertake following activities:

3.1.1. PROCESS DESCRIPTION & BLOCK FLOW DIAGRAM: Unit wise process description and development of block flow diagram.

3.1.2 Material Balance: Unit wise material balance (MB) along with Quantitative details of different streams on Block Flow Diagram of the Different Units.

Consultant to also provide unit wise process description for all Inside Battery limit (ISBL) & outside battery limit (OSBL) units. In addition, water as well as steam balance BFD has to be provided.

3.2 Utilities, Catalyst and Chemicals and Additives Requirement

Consultant to estimate the block-wise requirement of Utilities (Power/Steam (all levels)/Raw water/Circulating Water /Boiler Feed Water/Nitrogen/De Mineralized Water/service water/fire water/plant air/Instrument Air/ fuel etc.) including requirement for off-site facilities needed and list the same in its report with appropriate basis. The utilities balance diagram for distribution of various utilities should also be provided.

Consultant should also mention the chemicals and catalysts requirement for each process block, including initial fill, normal makeup rate and life of catalyst along with yearly cost of chemicals/catalysts. All the necessary facilities for generation/sourcing, receipt, distribution & storage of utilities/ chemicals to be considered for Capex estimation.

3.3 OSBL Facilities - Utilities & Offsite incl. Storage/dispatch, Effluents and Flare facilities

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Ø Consultant to firm up all utility systems required to meet the utility requirements for the Project including Raw water, Steam, Power, Fire water network, DM water, Cooling water, Plant air, Instrument air, Nitrogen, Fuel gas etc. by fixing their capacities, size, operating conditions & other specifications. Utility requirement and development of infrastructure for its sourcing to be provided.

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ü Power sourcing to be based on grid power. Consultant to assess all necessary facilities and associated cost for sourcing of electricity from the nearest state grid upto project battery limit as well as in-plant facilities such as substation, switchyard etc.

ü CW, DMW and BFW requirement for the project to be assessed and suitable

facilities to be considered for meeting such requirements.

- Ø FLARE SYSTEM – Estimation of Flare load (ISBL + OSBL) is one of the major requirements of the Study. Consultant to estimate flare loads under different failure scenarios and identify the load under governing scenario. In case flaring requirement is not met from existing facilities, new flare system to be considered.

 - Ø Consultant to design the common utilities & offsite facilities for the Project after considering the available utilities & offsite facilities in Refinery / Paradip Cracker Complex at Paradip that will be spared for the subject Project. IndianOil will provide the availability of surplus utilities & off-site facilities if available.

 - Ø EFFLUENT SUMMARY & WASTE DISPOSAL FOR ISBL & OSBL: Consultant to prepare a summary of total effluent (solid, liquid, gaseous) generated (ISBL + OSBL) from the Project (quantity/quality/frequency of discharge). Consultant will provide information (including block flow diagram) of the facilities required, including Zero Liquid Discharge (ZLD), for waste water treatment and solid waste (including spent catalyst etc.) storage/handling/disposal.

 - Ø TANK FARM, STORAGE YARD, WAREHOUSE, TRANSFER & DISPATCH FACILITIES – Consultant will estimate the Tankage /storage facilities requirement for raw material/ feed streams, intermediate & final product, waste solid etc. Consultant will also identify storage requirement for catalysts/chemicals used in the process. Storage requirement to include number of tanks, type of tanks, nominal capacity of each type of tank and construction material for the given days of storage. All applicable guidelines should be considered while assessing warehouse and storage facilities for the Project.

 - Ø Consultant to assess product transfer, loading & dispatch facilities. Requirement of unloading facilities for various feedstock and chemicals as well as loading facilities for solid waste, dispatch facilities for product and transfer facilities for movement of feedstock/intermediate products from one block to another block needs to be examined and recommended by Consultant.
- 3.4** Consultant will evaluate integration of process streams of the project (feed & products/by-products) with existing (refinery / PDPC) or upcoming IOCL facilities as required, examine need for intermediate storage, adequacy check of existing piping corridors and routing of new proposed piping corridors (including Right of Way) between existing/upcoming IOCL facilities and project facilities, requirement of surge drum etc. in consultation with Licensor.
- 3.5** All the integration pipelines (feed and products) & facilities will have to be indicated on a block flow diagram as well as on drawings (PFD) and plot plan of existing facilities.

4.0 Infrastructure facilities

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Infrastructure facilities such as roads & buildings, control room, substation, Satellite Rack Room (SRR), operators cabin etc. shall be identified. Also, for necessary facilities like workshop, Laboratory, Fire Station, Maintenance shop, warehouse, Administrative building, Canteen, Training Centre, costs required in this regard shall be part of Project Capex.

5.0 Manpower Estimation

Consultant to estimate total Manpower requirement for the Project with Break-up for each Process Unit / Facilities and break-up for Executives & Non-Executive Staff.

6.0 Plot area requirement/ Plot Plan

Consultant to provide and optimize the plot area requirement of each of the process and offsite blocks and will need to include the green belt requirement as per statutory norms for industrial facilities. Also, the Consultant should provide the overall plot plan in line with existing statutory norms (OISD/CCE etc.) as well as other guidelines/norms applicable. Consultant to provide equipment based plot plan for both ISBL and OSBL.

7.0 Preparation of complete Project description, Project schedule for both Hybrid (ISBL in LSTK while OSBL in conventional) & LSTK mode of execution.

8.0 This task is for preparation of complete project schedule as per internationally accepted standards (CPM/PERT/others).

9.0 The project schedule will start from the completion of feasibility study, through licensor selection and development of process design packages (PDP), FEED, investment approval of the project, detailed engineering, environmental clearance procedures, site preparation, procurement, construction, pre-commissioning, commissioning and startup until when the guarantee test run is performed, and the Project is successfully handed over to the owner.

11.0 Estimation of Expenditure for pre-Project activities

- Ø Consultant will estimate expenditure for pre-project activities.
- Ø Consultant will be required to estimate the pre project expenditure Indian Oil will incur starting from completion of feasibility study till investment approval. The activities will include;
 - § LICENSOR COST- 100% Cost of development of process design package (PDP)/BDEP, 50 % of License Fee
 - § PMC Cost till investment approval of the project - Preparation of OSBL Package, FEED, estimation of +/-10% cost estimate
 - § Cost of Environmental Impact Assessment (EIA) & Rapid Risk Analysis (RRA) studies
 - § Cost of Enabling Jobs such as construction water, construction power, approach road etc.
 - § Financial Appraisal cost

12.0 Estimation of Project Cost

The Project cost estimate is required with an accuracy level of $\pm 30\%$. Project cost should have contents as given in **Attachment list**. Cost estimate & time schedule to be furnished for **Hybrid (ISBL in LSTK while OSBL in conventional) & LSTK mode of execution**. The cost estimate should cover the following:

- Ø Overall summary sheets of Project cost, plant & machinery, process units and Utilities & off-site cost along with basis of cost estimates for each component (templates provided). ISBL cost shall be estimated based on information (broad equipment specifications) provided by any one of the potential licensors for the products under study. This information will be sourced by Consultant. OSBL cost shall be worked out based on utilities & offsite design and facilities specifications developed by Consultant.
- Ø Detailed equipment break-up cost sheets for each process unit. Budgetary quotations are to be obtained from competent vendors for all high value and critical items.
- Ø Site development fees and Construction period expenses
- Ø Basic design & engineering fees, License / Know-how fees, list & cost of propri

etary items (if any), commissioning and training fees based on quote from licensor.

Ø Start-up expenses.

Ø Estimated consultancy fees for carrying out detailed engineering, procurement, inspection and expediting of equipment/materials, tendering and construction supervision.

Ø Identify ODC (Over dimensional consignment) items and make proper cost provision for their movement to the Project location.

Ø Estimates for civil, electrical materials, piping, structural, instrumentation materials should be based on estimates for similar projects.

Ø Budgetary quote of vendors/ PO for similar equipment/ supporting/back-up documents.

Ø Repairs and maintenance.

Ø Consultant to carry out equipment-based costing for all the process units considered for the Project.

Ø Consultant to also estimate the phasing of capital cost during Project Execution stage.

13. Operating cost

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Variable operating cost from the consumption parameters (utilities/catalyst/chemicals) of all the process units and OSBL facilities included in the Project to be estimated (with all details/back-up). Fixed operating cost along-with the break-up of all elements (e.g. Repair & Maintenance Cost, Spares, Salary & Wages, Consumables Overheads, and Insurance etc.) also to be estimated.

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14.0 Safety, pollution control and energy conservation measures (inclusive of all emissions balances)

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Consultant to provide details of safety, pollution control and energy conservation measures to be undertaken and amount earmarked separately for safety, pollution control and energy conservation in the total Project cost towards implementation of such measures.

15.0 Overall Project Process, Safety

- Ø Overall Project configuration to be elaborated along with Process details, description, drawings, material balance etc.
- Ø Assess the adequacy of firefighting system including firewater storage tanks needed to be confirmed and accordingly cost provision kept.
- Ø Safety Issues associated with project, Storage, handling & dispatch of products as per mentioned options to be discussed in details & addressed accordingly & precaution to be adopted for handling & loading to be highlighted. MSDS of all products to be included and any issue based on it to be mentioned categorically.
- Ø Facility cost in this regard to be included in the project cost.

16.0 Consultant to assess the impact on the overall Project Capex/ Opex if need arises to add/drop any process units mentioned in Section 1.0.

The consultant may be required to further optimize the Capex/Opex / plot plan if need arises during the development of financial model for the project.

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Note: Consultant has to provide soft copy of capital cost calculation (14 head format as well as plant & machinery summary lists as per Attachment-1) in excel format with all the formulas present and showing calculation of different heads including taxation.

Disclaimer/अस्वीकरण

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to

exemption provided to such sellers under GeM GTC.

3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for [attached categories](#), trials are allowed as per approved procurement policy of the buyer nodal Ministries)
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.
15. Any ATC clause in contravention with GeM GTC Clause 4 (xiii)(h) will be invalid. In case of multiple L1 bidders against a service bid, the buyer shall place the Contract by selection of a bidder amongst the L-1 bidders through a Random Algorithm executed by GeM system.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

This Bid is governed by the [General Terms and Conditions/सामान्य नियम और शर्तें](#), conditions stipulated in Bid and [Service Level Agreement](#) specific to this Service as provided in the Marketplace. However in case if any condition specified in General Terms and Conditions/सामान्य नियम और शर्तें is contradicted by the conditions stipulated in Service Level Agreement, then it will over ride the conditions in the General Terms and Conditions.

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws./जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्यवाई का आधार होगा।

---Thank You/धन्यवाद---